

Abstract

The invention relates to a method and mold for producing transparent optical elements from polymeric materials. The optical elements produced have at least one surface region having which have reduced interfacial reflection. In the method, the entire surface or a correspondingly selected surface of a reference element, made of a polymeric material, is exposed to the influence of high-energy ions in a vacuum to form an irregular nanostructure with alternately arranged elevations and depressions lying in between. Subsequently, a thin electrically conducting layer is applied. Electrochemical forming is carried out to obtain a mold with a negative contour which is superposed by the nanostructure. With such a mold, the optical elements having a nanostructure which reduces the interfacial reflection can then be produced in a molding process.